

**JIS G 3116 SG255 steel plate/sheet for gas cylinders and gas vessels**

SG255 steel plate/sheet, JISG 3116 SG255 steel plate/sheet, under JIS G 3116 standard, we can regard SG255 steel plate/sheet for gas cylinders and gas vessels.

SG255 steel plate/sheet is one mainly of Steel for gas cylinders and gas vessels. JISG3116 SG295 steel is grade for gas cylinders in SG255, SG295, SG325 and SG365, which with the tensile strength of 400MPa and the yield strength of 255MPa.

Chemical composition unit%

| Symbol | Chemical composition |           |           |          |          |
|--------|----------------------|-----------|-----------|----------|----------|
|        | C<br>max             | Si<br>max | Mn<br>max | P<br>max | S<br>max |
| SG255  | 0.20                 | -         | 0.30      | 0.040    | 0.040    |

Mechanical properties

| Symbol | Yield point or proof stress<br>N/mm <sup>2</sup> (min) | Tensile strength<br>N/mm <sup>2</sup> min | Elongation<br>% min | Tensile test piece        | Bendability   |                                    |                           |
|--------|--|---|---------------------|---------------------------|---------------|------------------------------------|---------------------------|
|        |  |   |                     |                           | Bending Angle | Inside radius                      | Test piece                |
| SG255  | 255  | 400                                       | 26                  | NO.5 in rolling direction | 180°          | Thickness x 1.0<br>Thickness x 1.5 | No.3 in rolling direction |

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